ABSTRACT OF THE DISCLOSURE

New tropane analogs that bind to monoamine transporters are described, particularly, 8-aza, 8carbo and 8-oxo tropanes having 6- or 7-hydroxyl or ketone substituents. The compounds of the present invention can be racemic, pure *R*-enantiomers, or pure *S*-enantiomers. Certain preferred compounds of the present invention have a high selectivity for the DAT versus the SERT. Also described are pharmaceutical therapeutic compositions comprising the compounds formulated in a pharmaceutically acceptable carrier and a method for inhibiting 5-hydroxy-tryptamine reuptake of a monoamine transporter by contacting the monoamine transporter with a 5-hydroxytryptamine reuptake inhibiting amount of a compound of the present invention. Preferred monoamine transporters for the practice of the present invention include the dopamine transporter, the serotonin transporter and the norepinephrine transporter.